

CLAIMS

1. A thrust dynamic pressure bearing comprising:

a bearing surface of a rotating-side bearing member; and

5 a bearing surface of a fixed-side bearing member, both surfaces facing each other axiswise through a minute interspace, wherein

the minute interspace is filled with lubricating oil;

10 a plurality of dynamic pressure generating grooves are formed on at least one of the bearing surfaces of the rotating-side bearing member and the fixed-side bearing member;

rotation is retained by dynamic pressure of lubricating oil being induced by means of the dynamic pressure generating grooves according to rotation of the rotating-side bearing member; and

15 groove width G of the dynamic pressure generating groove and width L of a land circumferentially adjacent to the dynamic pressure generating groove hold $G > L$.

2. The thrust dynamic pressure bearing as claimed in claim 1, wherein

20 groove width G of the dynamic pressure generating groove and width L of a land circumferentially adjacent to the dynamic pressure generating groove hold $G > L$ in an area of 80% or more of the area in which the dynamic pressure generating grooves provided on the bearing surface are formed.

25 3. The thrust dynamic pressure bearing as claimed in one of claims 1 and 2, wherein the dynamic pressure generating groove has a herringbone shape.

4. The thrust dynamic pressure bearing as claimed in one of claims 1 and 2, wherein the dynamic pressure generating groove has a spiral shape.

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5. The thrust dynamic pressure bearing as claimed in claim 3, wherein relationship between groove width G of the dynamic pressure generating groove and width L of a land circumferentially adjacent to the dynamic pressure generating groove ranges from $G:L = 65:35$ to $G:L = 75:25$.

10 15 6. The thrust dynamic pressure bearing as claimed in claim 4, wherein relationship between groove width G of the dynamic pressure generating groove and width L of a land circumferentially adjacent to the dynamic pressure generating groove ranges from $G:L = 65:35$ to $G:L = 80:20$.

7. A spindle motor comprising a thrust dynamic pressure bearing as claimed in any one of claims 1 through 6.

20 8. An information recording and reproducing device comprising the spindle motor as claimed in claim 7.